



State of Louisiana

Department of Environmental Quality



KATHLEEN BABINEAUX BLANCO
GOVERNOR
Certified Mail No.

MIKE D. McDANIEL, Ph.D.
SECRETARY

Activity No.: PER19960023
Agency Interest No. 2083

Sarah Thigpen
Responsible Care Leader
Union Carbide Corporation
St. Charles Operations
P. O. Box 50
Hahnville, LA 70057

RE: Part 70 Operating Permit, Union Carbide Corp - St Charles Operations, Olefins Distribution/Site Logistics Units, Union Carbide Corp, Taft, St. Charles Parish, Louisiana

Dear Ms. Thigpen:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

Permit No.: 2656-V0

Chad Carr Brown Ph.D.
Chad Carr Brown Ph.D.

Assistant Secretary
CCB:LND

cc: EPA Region VI

OFFICE OF ENVIRONMENTAL SERVICES • P.O. BOX 4313 • BATON ROUGE, LOUISIANA 70821-4313



AN EQUAL OPPORTUNITY EMPLOYER



AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

I. Background

Union Carbide Corp (UCC), St Charles Operations (SCO), owns and operates a chemical manufacturing complex located in Taft, Louisiana. Olefins Distribution and Site Logistics Units are existing loading facilities that began operation before 1969. These units currently operate under different State and Federal Permits which are being consolidated into one permit.

Currently, Site Logistics is operating under Permit No. 2719-V0 issued May 22, 2001, and the HCD Olefins Distribution Unit is operating under Olefins I and II Permit Nos. 2422 (M-1), dated October 12, 1999, and 2656 (M2) dated March 25, 2003.

This is the Part 70 Operating permit for Site Logistics and Olefins Distribution Units.

II. Origin

A permit application and Emission Inventory Questionnaire was submitted by Union Carbide Corp on October 12, 1996 requesting an Initial Part 70 operating permit for HCD Olefins Distribution Unit; an updated application was submitted on August 6, 2002. On October 13, 2004 a revised application was submitted requesting a modification to the Site Logistics TV Permit as well as the incorporation of the Olefins Distribution Unit. On March 3, 2005 an additional revision was submitted requesting a renewal with a modification to the Site Logistics TV Permit, and the inclusion of the initial TV permit for Olefins Distribution Unit. Additional information was also submitted March 17, 21, 23, April 20, May 18, June 8, July 13, 14, August 24, September 19, October 11 and November 18, 2005, and January 10, 2006.

III. Description

Site Logistics is responsible for the bulk storage, loading and unloading of many of the products and raw materials associated with the SCO.

Various air pollution control equipment is used to reduce emissions. These include a marine vapor recovery enclosed flare for barge loading of Dripolene; an enclosed flare for tank car, tank truck, and marine loading of Acrylates; scrubbing of tank car and tank truck loading of Amines; flaring of tank car cleaning losses of Ethylene Oxide; pressure swing adsorption control of storage emissions of Ethylene Dichloride; non-venting pressurized tanks for materials such as

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

Ammonia; pressure tank losses recycled to process units for materials such as Butadiene and Vinyl Methyl Ether; and internal floating roof configuration for storage of materials such as Butanol and Methanol.

The HCD Olefins Distribution Unit provides support for both the Olefins I and II Units. It is comprised of 17 feed and storage vessels. The only operating flexibility for Olefins Distribution is the storage vessel service. Nine (9) tanks will be permitted to store Dripolene and/or Naphtha and/or wastewater (water and Dripolene). Each tank will be permitted to store the entire yearly throughput (which is possible for any one tank for any one year) for all services. This will only result in a slight overestimation of VOC emissions from these tanks.

UCC requests the following changes as well as the reconciliation of emissions from change in methodology due to better process knowledge and conservative estimates.

- The consolidation of the Initial Title V for HCD Olefins Distribution Unit with the Title V renewal for Site Logistics.
- The addition of the Acrylate Enclosed Flare, Emission Point (EP) 3414, to capture Acrylate emissions. This point will replace both the Field Acrylate Scrubber (EP 3404) and the Overland Acrylate Scrubber (EP 3405). This point will also capture emissions from the marine loading of Acrylates previously captured by the No. 3 Dock Scrubber for Amines (EP 3409).
- The addition of a Monoethanolamine (MEA) Tank 1230 (EP 3415).
- The addition of a Diethylenediamine (DEDA) Tank 2326 (EP 3420).
- The addition of the new Tank /Truck (T/T) Rack (EP 3426). This loading rack will replace the existing rack Emission Point 615.
- The addition a new Acetic Acid Tank, Tank 2200A (EP 3419).
- The incorporation of the Vinyl Acetate Monomer Tanks (Tanks SL-A & SL-B) from the Unit 9 Permit No. 2876-V0.
- The creation of the SL Transfer Operations CAP (EP 3400) to provide operational flexibility for loading activities.
- A modification to the Ethylene Oxide Flare (EP 507) and the No. 1 Dock Enclosed Flare (EP 668) emissions calculation methodologies.
- The deletion of the following emission sources:
 - Waste Water Tanks 2520, 2521, and 2522 (EPs 590, 591 and 592) respectively,
 - Drum Loading (EP 609),
 - Tank 2201 (EP 530),
 - Tank 2323 (EP 665).

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units

Agency Interest No.: 2083

Activity No.: PER19960023

Union Carbide Corp

Taft, St. Charles Parish, Louisiana

- The reconciliation of Tank and Loading Calculations. This reconciliation includes updated stream speciation, annual throughputs, max pump rates, tank colors, and revised scrubber efficiencies. This alters the regulatory applicability for some storage tanks (e.g., SOCMI HON previously applicable is no longer applicable).
- The reconciliation of the Packed Column Scrubber (EP 3413).
- The adjusting of emissions from the Ethylene Oxide Flare, EP 507, due to an increase in supplemental fuel gas required so as to meet the 300 BTU/scf regulatory requirements.
- An update to the hourly maximum rates to better reflect operating conditions for the Oxide Flare EP 507, and the No. 1 Dock Enclosed Flare EP 668, as well as 36 tanks.
- The inclusion of two diesel-fired engine-driven water pumps, EP 3417 and 3418.
- New Naphtha service for Tanks EP 516, 518 and 600

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	4.5	4.34	- 0.16
SO ₂	4.2	3.44	- 0.76
NO _X	65.3	59.69	- 5.61
CO	21.7	48.91	+ 27.21
VOC*	239.37	329.68	+ 90.31
Ammonia	1.3	0.29	- 1.01
Hydrogen Sulfide	-	0.08	+ 0.08

* VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Acetaldehyde	0.18	0.82	+ 0.64
Acrolein	-	<0.01	+ <0.01
Acrylic Acid	3.3	5.80	+ 2.50
Benzene	2.15	13.77	+ 11.62

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units

Agency Interest No.: 2083

Activity No.: PER19960023

Union Carbide Corp

Taft, St. Charles Parish, Louisiana

*** VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Biphenyl	0.004	<0.01	+ <0.01
1,3-Butadiene	2.20	6.40	+ 4.20
n-Butanol (<i>n</i> -Butyl Alcohol)	17.3	8.28	- 9.02
Cumene	0.007	<0.01	+ <0.01
Diethanolamine	1.2	0.15	- 1.05
Diethylene Ether (1,4-Dioxane)	0.002	0.04	+ 0.038
Ethyl Acrylate	4.3	2.72	- 1.58
Ethylbenzene	0.063	0.10	+ 0.037
Ethylene Dichloride (1,2-Dichloroethane)	3.0	6.81	+ 3.81
Ethylene Glycol	6.3	3.26	- 3.04
Ethylene Oxide	0.54	9.21	+ 8.67
Formaldehyde	-	<0.01	+ <0.01
Glycol Ethers (II-S)	3.7	2.82	- 0.88
Glycol Ethers (II)	5.5	0.64	- 4.86
n-Hexane	7.03	16.47	+ 9.44
Hydroquinone	Neg.	<0.01	+ <0.01
Methanol	0.63	0.72	+ 0.09
MEK	<0.01	<0.01	-
Naphthalene	0.17	0.10	-0.07
PAHs	<0.01	<0.01	-
Phenol	-	<0.01	+ <0.01
Phthalic Anhydride	-	<0.01	+ <0.01
Styrene	0.18	0.28	+ 0.10
Toluene	1.25	2.40	+ 1.15
2,2,4-Trimethylpentane	0.092	0.21	+ 0.118
Vinyl Acetate	-	<0.01	+ <0.01

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

*** VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Vinyl Chloride	-	<0.01	+ <0.01
Xylenes	0.29	0.50	+ 0.21
TOTAL	59.388	81.50	22.112

Other VOC (TPY): 248.18

There are several projects included in this permit are follows. The Olefins Distribution Unit has the Naphtha service for three tanks, EP (516, 518, and 600). The Site Logistics has the new T/T Loading Rack, EP 3416, new Acrylates Flare, EP 3414, the addition of three tanks, EP (3415, 3419, 3420) and two water pumps, EP (3417 and 3418).

Olefins Distribution Project

<u>Emission Point</u>	<u>Project Increases</u>	<u>PSD Trigger</u>
516	8.38	
518	8.35	
600	8.38	
TOTAL	25.11	40

Site Logistics Project

<u>Emission Point</u>	<u>Project Increases</u>	<u>PSD Trigger</u>
3416	21.32 ^(a)	
3414	4.72	
3415	1.15	
3417	0.61	
3418	0.45	
3420	1.94	
3419	(b)	
TOTAL	30.19	40

- (a) Emissions from this loading rack are included in Loading CAP 3400. This is the CAP limit.
- (b) Emissions from this tank go to Acrylate Enclosed Flare, Emission Point 3414.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on XXXXX, 2005; and in the *St. Charles Herald-Guide*, Boutte, on XXXXX, 2005, and submitted to the St. Charles Parish Library Hahnville Branch, on XXXXX, 2005. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XXXXX, 2005. The draft permit was also submitted to US EPA Region VI on XXXXXX, 2005. All comments will be considered prior to the final permit decision.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

VII. Effects on Ambient Air

Dispersion Model Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
Acrylic Acid *	8 Hour Avg.	*	140.00 $\mu\text{g}/\text{m}^3$
Ethylene Oxide	Annual Avg.	0.66 $\mu\text{g}/\text{m}^3$	1.00 $\mu\text{g}/\text{m}^3$
n-Hexane	8 Hour Avg.	1206.52 $\mu\text{g}/\text{m}^3$	4,190.00 $\mu\text{g}/\text{m}^3$
Vinyl Chloride	Annual Avg.	0.017 $\mu\text{g}/\text{m}^3$	1.19 $\mu\text{g}/\text{m}^3$

* To determine compliance with the Louisiana Ambient Air Standards (AAS) for acrylic acid, permittee shall establish ambient monitoring for this pollutant in accordance with a monitoring plan and operating procedures to be approved by the Office of Environmental Assessment. The monitoring plan and operating procedures shall be submitted within 45 days of the permit issuance, and the monitoring should commence as soon as practical but no later than 90 days from the date of permit issuance. Monitoring sites should be based upon consideration of the maximum off site concentrations as predicted by dispersion modeling of Union Carbide's permitted emissions alone and of permitted emissions from all sources in the Union Carbide Area of Inclusion (AOI). If monitoring indicates off-site levels of acrylic acid above the AAS, further remedial action will be required to achieve compliance with the ambient air standards; permittee shall submit an application for permit modification within 60 days after completion of monitoring.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

VIII. General Condition XVII Activities

Work Activity	Schedule Events/yr	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _x	CO	VOC
1. Hose Connect/Disconnect	500,000	-	-	-	-	0.22
2. Drum pump removal from raw material drums	1,800	-	-	-	-	0.04
3. Truck & railcar sampling	400	-	-	-	-	0.01
4. Pump replacement	400	-	-	-	-	<0.001
5. In-line item replacement	400	-	-	-	-	<0.001
6. Storage tank/process vessel relief device replacement	400	-	-	-	-	<0.01
7. Tank Cleaning	20	-	-	-	-	5.00
8. Acrylate Enclosed flare Maintenance	240 hrs	-	-	-	-	4.88
9. Tank Degassing (50)	2 wk/tank	<0.01	-	4.20	2.70	4.13
10. Unloading operations	26	-	-	-	-	2.74
11. Temporary diesel pump (135 HP)	720 hrs	0.11	0.10	1.51	0.32	0.12
12. HCD sampling activities	10,800	-	-	-	-	0.02
13. Solids loading & unloading	4	0.08	-	-	-	-
14. EG barge vapor sweeping	692	-	-	-	-	1.23
15 Filter changes	300	-	-	-	-	1.84
16. Tank/Rail car cleaning /venting	4,800	-	-	-	-	4.80
17. hatch sampling	30,000	-	-	-	-	2.00

IX. Insignificant Activities

ID No.:	Description	Citation
2246	Water/Caustic Tank	Insignificant Activity per LAC 33:III.501.B.5.A.4.
2240	Water/Caustic Tank	LAC 33:III.501.B.5.A.4.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter							
		5 ¹	9	11	13	15	21	51*	56
	Plant Wide								
GRP050	Unit	1	1	1	1	1	1	1	1
EQT100	Tank SL-A	1				1	1		
EQT101	Tank SL-B	1				1	1		
FUG004	196P – Equipment Fugitives	1				1	1		
EQT137	255	1				3	1		
EQT138	499	1				3	1		
EQT139	500	1				3	1		
EQT140	501	1				3	1		
EQT141	502	1				3	1		
EQT142	503	1				3	1		
EQT143	504	1				3	1		
EQT144	505	1				3	1		
EQT145	506	1				3	1		
EQT146	507	1	1	3	2	1	1		
EQT147	507B	1				1	1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter								
		5'	9	11	13	15	21	51*	56	59
EQT148	507C	1					1	1		
EQT149	507D	1					1	1		
EQT150	507E	1					1	1		
EQT151	507F	1					1	1		
EQT152	507G	1					1	1		
EQT153	511	1					3	1		
EQT154	512	1					1	1		
EQT155	513	1					3	1		
EQT156	514	1					3	1		
EQT157	515	1					3	1		
EQT158	516	1					1	1		
EQT159	517	1					3	1		
EQT160	518	1					1	1		
EQT161	519	1					3	1		
EQT162	520	1					3	1		
EQT163	521	1					3	1		
EQT164	522	1					3	3		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter								
		5 ¹	9	11	13	15	21	51*	56	59
EQT165	523	1					3	1		
EQT166	524	1					3	3		
EQT167	525	1					3	3		
EQT168	527	1					3	3		
EQT169	528	1					3	3		
EQT410	529	1					3	1		
EQT170	531	1					3	1		
EQT171	532	1					3	1		
EQT172	533	1					3	1		
EQT173	534	1					3	1		
EQT174	535	1					3	1		
EQT175	536	1					3	1		
EQT176	537	1					3	1		
EQT177	538	1					3	1		
EQT178	540	1					3	1		
EQT179	541	1					3	1		
EQT180	542	1					3	1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations

Olefins Distribution & Site Logistics Units

Agency Interest No.: 2083

Activity No.: PER19960023

Union Carbide Corp

Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter								
		5'	9	11	13	15	21	51*	56	59
EQT181	543	1					3	3		
EQT182	544	1					3	3		
EQT183	545	1					3	3		
EQT184	546	1					3	1		
EQT185	547	1					3	1		
EQT186	549	1					3	3		
EQT411	551	1					3	3		
EQT188	552	1					3	3		
EQT189	553	1					3	1		
EQT190	554	1					3	3		
EQT191	555	1					3	1		
EQT340	572	1					1	3		
EQT341	573	1					1	3		
EQT342	574	1					1	3		
EQT343	575	1					1	3		
EQT192	598	1					3	1		
EQT193	599	1					1	1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter								
		5 ¹	9	11	13	15	21	51*	56	59
EQT194	600	1					1	1		
EQT195	601	1					1	1		
EQT196	602	1					1	1		
EQT197	603	1					1	1	3	
EQT198	604	1					3	3		
EQT199	606	1					1	1		
EQT200	607	1					1	1		
EQT201	608	1					1	1		
EQT397	†615	1								
EQT202	†617	1								
EQT203	†619	1								
EQT204	†621A	1								
EQT205	†621B	1								
EQT206	†625	1								
EQT207	†625A	1								
EQT208	†627	1								
EQT209	632	1					3	1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter								
		5 ¹	9	11	13	15	21	51*	56	59
EQT210	633	1					1	1		
EQT211	634	1					1	1		
EQT344	635	1					1	1		
EQT345	635A	1					1	1		
EQT346	636	1					1	1	3	
EQT212	637	1					3	1		
EQT213	638	1					3	1		
EQT214	639	1					3	3		
EQT215	640	1					3	3		
EQT216	641	1					3	3		
EQT217	642	1					3	3		
EQT218	646	1					3	3		
EQT219	663	1					3	1		
EQT220	666	1					3	2		
EQT221	668	1	1	1	2	1	1			
EQT222	3402	1					3	1		
EQT223	3403	1								

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter					
		5 ¹	9	11	13	15	21
EQT224	3406						
EQT225	3407						
EQT226	3408						
EQT227	3409						
EQT228	3410						
EQT229	3411 Diesel Engine 1	1	1	1	2	2	2
EQT406	3412 Diesel Engine 2	1	1	1	2	2	2
EQT231	3414	1	1	1	2	1	1
EQT232	3415	1			3	1	
EQT233	†3416	1					
EQT234	3417	1	1	1	2	2	2
EQT235	3418	1	1	1	2	2	2
EQT236	3419	1			3	1	
EQT405	3420	1			3	3	
EQT407	3421 Diesel Engine 3	1	1	1	2	2	2
GRP051	†3400 – SL Loading CAP	1					
GRP078	†Capped MGE Rerun Loading	1			2	1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter					
		5 ¹	9	11	13	15	21
GRP079	†Capped Mono Still Tails, Glycol Loading	1				2	1
GRP081	Acrylates Loading (Non Tap)	1				2	3
GRP082	Ethyl Acrylate Loading	1				2	1
GRP083	Ethylene Oxide Loading	1				1	1
GRP084	Crude Acetaldehyde Loading	1				1	1
GRP085	Dripolene Loading	1				1	1
GRP086	MDP & THBA Loading	1				2	3
GRP087	Crude Butadiene Loading	1				1	1
GRP088	Propylene Loading	1				1	3
GRP089	†Capped Loading- Others	1				2	3
GRP090	†Capped Amines Loading	1				2	3
GRP091	†Capped Quench Oil Loading	1				2	1
GRP092	†Capped Acrylic Acid Loading	1				2	1
GRP093	†Capped Butanol Loading	1				2	1
GRP114	†Capped Acetic Acid Loading	1				2	3

* The regulation indicated above is a State Only regulation.

¹ LAC 33:II.501.C.6 citations are federally enforceable except when it specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

† The emissions from these loading racks are capped under Emission Point 3400. The regulations apply to the rack depending on the material loaded. There are different scenarios for the different materials. The scenarios include the applicable regulations.

KEY TO MATRIX

- | | |
|---|--|
| 1 | -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements. |
| 2 | -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date. |
| 3 | -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source. |

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	K	Kb	W	A	J	M	V	B	F	A	F	G	H	Y	S	T	U	W	Y	EE	FF	70	64	68	82
	Plant Wide																										
GRP050	Unit	1			1					1	1	1	1									1*	1	1	1	1	1
FUG004	196P – Equipment Fugitives					1	1	1	1			1				1	1*	1*	1	1	1						
EQT100	Tank SL-A																										1
EQT101	Tank SL-B																										1
EQT137	255																										3
EQT138	499																										3
EQT139	500																										3
EQT140	501																										3
EQT141	502																										3
EQT142	503																										3
EQT143	504																										3
EQT144	505																										3
EQT145	506																										3

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR																
		A	Kb	W	A	J	M	B	F	A	F	G	H	Y	S	T	U	W	Y	EE	FF	EE	FF	70	64	68	82
EQT146	507																								2		
EQT147	507B			2																					2		
EQT148	507C			2																					2		
EQT149	507D			2																					2		
EQT150	507E			2																					2		
EQT151	507F			2																					2		
EQT152	507G			2																					2		
EQT153	511			2																					3		
EQT154	512			2														1*						3	1		
EQT155	513			2														1	1					3			
EQT156	514			2																				3	3		
EQT157	515			3																				3	3		
EQT158	516			2	1*													1						1*	1	3	
EQT159	517			2														1	1					3			
EQT160	518			2	1*													1						1*	1	3	
EQT161	519			3																				3	3		
EQT162	520			2														3	3					3			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR										
		A	K	Kb	W	A	J	M	V	B	F	A	G	H	Y	S	T	U	W	Y	EE	FF	70	64	68	82				
EQT163	521				2										1	1							3							
EQT164	522					2											3	3					3	3						
EQT165	523						2									1	1						3							
EQT166	524							2									3	3					3	3						
EQT167	525								2								3	3					3	3						
EQT168	527									2							3	3					3	3						
EQT169	528										2						3	3					3	3						
EQT410	529											2					3	3					3	3						
EQT170	531												2					1	1					3						
EQT171	532													2										3						
EQT172	533														2			3	3					3						
EQT173	534															2			3	3				3						
EQT174	535																2			1	1			3						
EQT175	536																	2			3	3			3					
EQT176	537																		2			3	3			3				
EQT177	538																		2			3	3			1				
EQT178	540																			2			1	1			3			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp

Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	K	Kb	W	A	J	M	V	B	F	A	F	G	H	Y	S	T	U	W	Y	EE	FF	70	64	68	82
EQT179 541				2								1	1											3			
EQT180 542				2								1	1											3			
EQT181 543				2								3	3											3	3		
EQT182 544				2								3	3											3	3		
EQT183 545				2								3	3											3	3		
EQT184 546				2								3	3											3	3		
EQT185 547				2								1	1											1			
EQT186 549				2								3	3											3	3		
EQT411 551				2								3	3											3	3		
EQT188 552				2								3	3											3			
EQT189 553				2								3	3											3			
EQT190 554				3								3	3											3	3		
EQT191 555				3								3	3											3			
EQT340 572				3								3	3											3			
EQT341 573				3								3	3											3			
EQT342 574				3								3												3			
EQT343 575				3								3												3			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR															
		A	K	Kb	W	A	J	M	B	F	A	G	H	Y	S	T	U	W	Y	EE	FF	70	64	68	82	
EQT192 598					2																					
EQT193 599					2																					
EQT194 600					2	1*																				
EQT195 601					2	1*																				
EQT196 602						2																				
EQT197 603						2																				
EQT198 604						2																				
EQT199 606						2	1*																			
EQT200 607							2	1*																		
EQT201 608							2	1*																		
EQT397 †615																										
EQT203 †619																										
EQT204 †621A																										
EQT205 †621B																										
EQT206 †625																									2	
EQT207 †625A																									2	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR																
		A	K	Kb	W	A	J	M	V	B	F	A	F	G	H	Y	S	T	U	W	Y	EE	FF	70	64	68	82
EQT208	†627																										
EQT209	632				3																						
EQT210	633				2	1*									1							1*	1	1	3	3	
EQT211	634				2	1*									1							1*	1	1	3		
EQT344	635				3																						
EQT345	635A				3																						
EQT346	636				3																						
EQT212	637				2												3	3									
EQT213	638				2												3	3									
EQT214	639				2												3	3									
EQT215	640				2												3	3									
EQT216	641				2												3	3									
EQT217	642				2												3	3									
EQT218	646				2												3	3									
EQT219	663				2												3	3									
EQT220	666				3												1	1								3	
EQT221	668																	3								2	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations

Olefins Distribution & Site Logistics Units

Agency Interest No.: 2083

Activity No.: PER19960023

Union Carbide Corp

Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 63 NESHAP												40 CFR			
		A	K	Kb	W	A	J	M	V	B	F	A	F	G	H	Y	S	T	U	W	Y	EE	FF	EE	FF	70	64	68	82
EQT222	3402																												
EQT223	3403																												
EQT224	3406																												
EQT225	3407																												
EQT226	3408																												
EQT227	3409																												
EQT228	3410																												
EQT229	3411 Diesel Engine 1																												
EQT406	3412 Diesel Engine 2																												
EQT230	3413																												
EQT231	3414																												
EQT232	3415																												
EQT233	†3416																												
EQT234	3417																												
EQT235	3418																												
EQT236	3419																												
EQT405	3420																												

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR								
		A	K	Kb	W	A	J	M	V	B	F	A	F	G	H	Y	S	T	U	W	Y	EE	FF	70	64	68	82							
EQT407	3421 Diesel Engine 3																																	
GRP051	†3400 – SL Loading CAP																																	
GRP078	†Capped MGE Rerun Loading																																	
GRP079	†Capped Mono Still Tails, Glycol Loading																																	
GRP081	Acrylates Loading (Non Tap)																																	
GRP082	Ethyl Acrylate Loading																																	
GRP083	Ethylene Oxide Loading																																	
GRP084	Crude Acetaldehyde Loading																																	
GRP085	Dipolene Loading																																	
GRP086	MDP & THBA Loading																																	
GRP087	Crude Butadiene Loading																																	
GRP088	Propylene Loading																																	
GRP089	†Capped Loading- Others																																	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 63 NESHAP		40 CFR	
		A	K	Kb	W	A	J	M	V	B	F	A	F	G	H	S	T	U	W	Y	EE	FF	70	64	68	82			
GRP090	†Capped Amines Loading																												
GRP091	†Capped Quench Oil Loading										1				1	1	1	1	2										
GRP092	†Capped Acrylic Acid Loading															1	1	1	1	2									
GRP093	†Capped Butanol Loading																		2										
GRP114	†Capped Acetic Acid Loading																		2										

- * This regulation is applicable only because another regulation requires it.
- † The emissions from these loading racks are capped under Emission Point 3400. The regulations apply to the rack depending on the material loaded. There are different scenarios for the different materials. The scenarios include the applicable regulations.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e., vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana**

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 137, 138, 139, 142, 143, 144, 145, 153, 155, 159, 163, 165	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Storage tank subject to SOCMICHON; therefore, OLD not applicable per 40 CFR 63.2338(c)(1). The annual average vapor pressure < 0.1 psia.
170, 174, 178, 179, 180, 185	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. No construction, reconstruction, or modification after July 23, 1984.
Tanks 255, 499, 500, 503, 504, 505, 506, 511, 513, 517, 521, 523, 531, 535, 540, 541, 542, 547	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 140, 141, 162, 172, 173, 175, 176	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Does not meet the definition of a storage vessel per 63.101. Tanks store HAPs only as impurities. The annual average vapor pressure is < 1.5 psia
Tanks 501, 502, 520, 533, 534, 536, 537	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (OLD)(Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. No construction, reconstruction, or modification after July 23, 1984.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 156	NESHAP Subpart YY – National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic MACT Standards [40 CFR 63.1100]	DOES NOT APPLY. The maximum true vapor pressure of total organic HAP is < 3.4 kPa
Tank 514	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure < 0. psia
	NSPS Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973, and Prior to May 19, 1978. [40 CFR 60.110]	DOES NOT APPLY. Storage vessel constructed, reconstructed or modified prior to June 11, 1973
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 158, 160, 194, 195, 199, 200, 201, 210, 211	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Storage is subject to NESHAP Subpart YY; therefore, OLD is not applicable as per 40 CFR 63.2338(c)(1)
Tanks 516, 518, 600, 601, 606, 607, 608, 633, 634	NSPS Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973, and Prior to May 19, 1978. [40 CFR 60.110]	DOES NOT APPLY. Storage vessel constructed, reconstructed or modified prior to June 11, 1973. Tanks store Dripolene or Naphtha
EQTs 340, 341, 342, 343, 346	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. Tanks do not store HAPs. Tanks are pressure vessels.
Tanks 572, 573, 574, 575, 636	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. No construction, reconstruction, or modification after July 23, 1984.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109]	DOES NOT APPLY. Tanks do not store TAPs.
	STATE ONLY	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 345, 345	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. Tanks are pressure vessels.
Tanks 635, 635A	NESHAP Subpart YY – National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic MACT Standards [40 CFR 63.1100]	DOES NOT APPLY. Tank is a pressure vessel and designed to operate without emissions to the atmosphere as per 40 CFR 63.1101.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tanks are pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 171 Tank 532	NESHAP Subpart EFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing -Storage Tanks [40 CFR 63.2430]	DOES NOT APPLY. Does not meet the definition of a storage vessel per 63.2550. Tank stores organic HAPs only as impurities.
	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Construction, reconstruction, or modification commenced prior to July 23, 1984.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 146 Flare 507	Compliance Assurance Monitoring [40 CFR 64]	EXEMPT as per 40 CFR 64.2(b)(1)(i). This flare is applicable to monitoring per the SOCMI HON.
	Emission Standards for Particulate Matter (Including Standards for Some Specific Facilities) [LAC 33:III.1311]	DOES NOT APPLY. This is a smokeless flare. It is steam assisted.
	Emission Standards for Sulfur Dioxide; Emission Limitations [LAC 33:III.1503]	EXEMPT. Unit emits less than 250 TPY SO ₂ . Keep records for at least 5 years to show compliance with or exemption from regulation.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 147, 148, 149, 150, 151, 152	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Storage tanks subject to SOCMII HON; therefore, OLD not applicable per 40 CFR 63.2338(c)(1). The annual average vapor pressure < 0.1 psia.
Tanks 507B, 507C, 507D, 507E, 507F, 507G	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. No construction, reconstruction, or modification after July 23, 1984.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 154 Tank 512	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not support CMPU subject to SOCMHON.
	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (OLD)(Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Storage tank is subject to MON MACT; therefore, OLD is not applicable per 40 CFR 63.2338(c)(1)
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. No construction, reconstruction, or modification after July 23, 1984.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
 Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 157, 161, 209	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not support CMPU subject to SOCMI HON.
Tanks 515, 519, 632	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (OLD)(Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Tanks store Butanol, a TAP not a HAP; therefore OLD doesn't apply.
	NESHAP Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON) -Storage Tanks [40 CFR 63.2430]	DOES NOT APPLY. Tanks store Butanol, a TAP not a HAP; therefore MON doesn't apply.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity > 39,891 gals (151 m ³) and VOC vapor pressure of material stored is < 0.5 psia.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQTs 164, 166, 167, 168, 169, 181, 182, 183, 186,	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not support CMPU subject to SOCMII HON.
411, 198, 215, 216, 217, 218, 405	NESHAP Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing -Storage Tanks [40 CFR 63.2430]	DOES NOT APPLY. Does not meet the definition of a storage vessel per 63.2550. Tanks do not store organic HAPs.
Tanks 522, 524, 525, 527, 528, 543,	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
544, 545, 549, 551, 604, 640, 641, 642, 646, 3420	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Construction, reconstruction, or modification commenced prior to July 23, 1984.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana**

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 192, 219	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tanks support HON Units, but do not meet the definition of a storage vessel per 63.101. Tanks store HAPs only as impurities. The annual average vapor pressure is < 1.5 psia.
Tanks 598, 663	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Construction, reconstruction, or modification commenced prior to July 23, 1984.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 410, 236	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not support CMPU subject to SOCMI HON.
Tanks 529, 3419	NESHAP Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing -Storage Tanks [40 CFR 63.2430]	DOES NOT APPLY. Does not meet the definition of a storage vessel per 63.2550. Tanks store organic HAPs only as impurities.
	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Construction, reconstruction, or modification commenced prior to July 23, 1984. And, for Tank 3419, built on 2005 the vapor pressure is less than 0.5 psia.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 236	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not support CMPPU subject to SOCMCI HON.
Tank 3419	NESHAP Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing -Storage Tanks [40 CFR 63.2430]	DOES NOT APPLY. Does not meet the definition of a storage vessel per 63.2550. Tanks store organic HAPs only as impurities.
	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank to be constructed in 2005, and will store acetic acid, with a vapor pressure less than 0.5 psia.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 188, 214	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tanks do not meet the definition of storage vessel per 63.101. Tanks do not store organic HAPs
Tanks 552, 639	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. No Construction, reconstruction, or modification after July 23, 1984.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations

Olefins Distribution & Site Logistics Units

Agency Interest No.: 2083

Activity No.: PER19960023

Union Carbide Corp

Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 189, 212, 213	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tanks do not meet the definition of storage vessel per 63.101. Tanks store organic HAPs only as impurities.
Tanks 553, 637, 638	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. No Construction, reconstruction, or modification after July 23, 1984.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 177, 184	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. The CMMPU utilizes intervening storage vessels for the product; These are the field tanks for the intervening storage vessels. Therefore, Subparts F & G do not apply per 63.100(g)(3)(ii)
Tanks 538, 546	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Construction, reconstruction, or modification commenced prior to July 23, 1984.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 190	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not meet the definition of storage vessel per 63.101.
Tank 554	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity is > 39,891 gals (151 m ³) and VOC vapor pressure of material stored is < 0.5 psia.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 191	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not meet the definition of storage vessel per 63.101. Tank stores organic HAPs only as impurities.
Tank 555	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity is > 39,891 gals (151 m ³) and VOC vapor pressure of material stored is < 0.5 psia.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 193	NESHAP Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing -Storage Tanks [40 CFR 63.2430]	DOES NOT APPLY. Does not meet the definition of a storage vessel per 63.2550. Tank stores organic HAPs only as impurities. Tank supports the LP-3 Unit.
Tank 599	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Construction, reconstruction, or modification commenced prior to July 23, 1984.
EQT 196	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
Tank 602	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Construction, reconstruction, or modification commenced prior to July 23, 1984.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 197	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not store organic Haps. Tank is not a storage vessel per 63.101.
Tank 603	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Pétroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Construction, reconstruction, or modification commenced prior to July 23, 1984.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
 Agency Interest No.: 2083
 Activity No.: PER19960023
 Union Carbide Corp
 Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 220	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. This tanks is subject to SOCMHON; therefore, OLD is not applicable per 40 CFR 63.2338(c)(1)..
Tank 666	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity is > 39,891 gals (151 m ³) and VOC vapor pressure of material stored is < 0.5 psia.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] STATE ONLY	EXEMPT. Tank emits Phenol a Class II TAP, but it's not emitted over the MER facility wide.
EQT 221 Flare 668	Compliance Assurance Monitoring [40 CFR 64]	EXEMPT as per 40 CFR 64.2(b)(1)(vi). This flare is subject to monitoring per specific condition in Requirements Section.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 229, 406, 407, 234, 235	Emissions Standards for Sulfur Dioxide [LAC 33:III.1503 & 1513]	EXEMPT. Unit emits less than 250 TPY of Sulfur dioxides.
Engines 3411, 3412, 3421 Pumps 3417, 3418	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III Chapter 51 Subpart A] STATE ONLY	EXEMPT as per LAC 33:III.5105.B.3.a. Emissions are from the combustion of Group 1 virgin fossil fuels.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 222 Tank 3402	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not meet the definition of storage vessel per 63.101. Tank stores organic HAPs only as impurities.
	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity is > 19,814 gals (75 m ³) but < 39,891 gals (151 m ³) with max true vapor pressure ,2.1 psia.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 231 Flare 3414	Compliance Assurance Monitoring [40 CFR 64]	EXEMPT as per 40 CFR 64.2(b)(1)(i). This flare is applicable to monitoring per the NESHAP OLD.
EQT 232 Tank 3415	NESHAP Subpart F & G – National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater. [40 CFR 63.100 & 110] – Storage Vessels	DOES NOT APPLY. Tank does not meet the definition of storage vessel per 63.101. Tank stores organic HAPs only as impurities.
	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non Gasoline) -Storage Tanks [40 CFR 63.2330]	DOES NOT APPLY. Does not meet the definition of an organic liquid per 63.2406. The annual average HAP true vapor pressure is < 0.1 psia.
	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity is > 39,891 gals (151 m ³) and VOC vapor pressure of material stored is < 0.5 psia.
	Control of Emissions of Organic Compounds: Storage of Volatile Organic Compounds [LAC 33:III.2103]	DOES NOT APPLY. Vapor pressure of material stored is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Union Carbide Corp – St. Charles Operations
Olefins Distribution & Site Logistics Units
Agency Interest No.: 2083
Activity No.: PER19960023
Union Carbide Corp
Taft, St. Charles Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
GRP 78, 79, 81, 82, 86, 89 – 93, 114 Loading scenarios	VOC Loading [LAC 33:III.2107]	DOES NOT APPLY. Vapor pressure of the material loaded at the racks is less than 1.5 psia.
	Marine Vapor Recovery [LAC 33:III.2108]	DOES NOT APPLY. Vapor pressure of the material loaded at the dock is less than 1.5 psia.
	NESHAP Subpart Y -National Emission Standards for Marine Tank Vessel Loading Operations [40 CFR 63.560]	EXEMPT as per 40 CFR 63.560(d)(1). Vapor pressure of material loaded at the dock is less than 1.5 psia.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 - 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 - 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 - 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 - 1. the date, place as defined in the permit, and time of sampling or measurements;
 - 2. the date(s) analyses were performed;
 - 3. the company or entity that performed the analyses;
 - 4. the analytical techniques or methods used;
 - 5. the results of such analyses; and
 - 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as

40 CFR PART 70 GENERAL CONDITIONS

well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;

40 CFR PART 70 GENERAL CONDITIONS

3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 12, 1996 requesting an Initial Part 70 operating permit for HCD Olefins Distribution Unit; an updated application was submitted on August 6, 2002. On October 13, 2004 a revised application was submitted requesting a modification to the Site Logistics TV Permit as well as the incorporation of the Olefins Distribution Unit. On March 3, 2005 an additional revision was submitted requesting a renewal with a modification to the Site Logistics TV Permit, and the inclusion of the initial TV permit for Olefins Distribution Unit. Additional information was also submitted March 17, 21, 23, April 20, May 18, June 8, July 13, 14, August 24, September 19, October 11 and November 18, 2005, and January 10, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
2. Cause of noncompliance;
3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:
- Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302
- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 137															
256															
EQT 138															
499															
EQT 139															
500															
EQT 140															
501															
EQT 141															
502															
EQT 142															
503															
EQT 143															
504															
EQT 144															
505															
EQT 145															
506															
EQT 146	0.03	0.24	0.13	0.01	1.27	0.03	0.85	9.07	3.72	4.56	49.19	19.95	1.96	486.64	8.57
507															
EQT 153															
511															
EQT 155															
513															
EQT 156															
514															
EQT 157															
515															
EQT 158															
516															
EQT 159															
517															
EQT 160															
518															
EQT 161															
519															

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 162													0.03	0.14	0.01
520													0.03	2.48	0.14
EQT 163													< 0.001	< 0.001	< 0.01
521													0.03	0.38	0.13
EQT 164													0.09	10.29	0.38
522													0.39	6.00	1.73
EQT 165													0.11	13.72	0.48
523													0.13	13.76	0.59
EQT 166													0.01	0.06	0.05
524													0.27	6.31	1.17
EQT 167													0.02	0.91	0.07
525													0.02	0.32	0.07
EQT 168													0.01	0.14	0.03
527													0.01	0.36	0.04
EQT 169													0.01	1.57	0.04
528													0.27	47.51	1.18
EQT 170													0.39	47.52	1.70
531															
EQT 171															
532															
EQT 173															
534															
EQT 174															
535															
EQT 176															
537															
EQT 178															
540															
EQT 179															
541															
EQT 180															
542															
EQT 181															
543															
EQT 182															
544															

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 183													0.24	47.49	1.07
545	EQT 185												0.01	0.18	0.03
547	EQT 186												0.10	47.41	0.43
549	EQT 192												0.12	2.16	0.53
598	EQT 193												0.51	1.33	2.22
599	EQT 194												3.67	10.21	16.09
600	EQT 195												3.67	10.21	16.07
601	EQT 196												0.12	0.59	0.51
602	EQT 197												0.33	1.18	1.43
603	EQT 198												0.43	3.89	1.90
604	EQT 199												6.11	11.76	26.78
606	EQT 200												6.11	11.76	26.78
607	EQT 201												6.11	11.76	26.78
608	EQT 202												290.47		
617	EQT 203												290.47		
619	EQT 204												290.47		
621A	EQT 205												290.47		
621B	EQT 206												290.47		
625															

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 207															
625a															
EQT 208															
627															
EQT 209															
632															
EQT 210															
633															
EQT 211															
634															
EQT 214															
639															
EQT 215															
640															
EQT 217															
642															
EQT 218															
646															
EQT 219															
663															
EQT 220															
666															
EQT 221	0.003	0.02	0.01	< 0.001	0.15 < 0.01	0.32	2.32	1.39	1.19	8.73	5.23	6.53	50.81	28.62	
668															
EQT 222															
3402															
EQT 223															
3403															
EQT 224															
3406															
EQT 225															
3407															
EQT 226															
3408															
EQT 227															
3409															

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ¹⁰			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 228															
3410	0.97	0.97	2.12	0.90	0.90	1.98	13.64	29.87	2.94	2.94	6.44	1.11	1.11	48.37	1.66
EQT 229															
3411															
EQT 230															
3413	0.13	0.36	0.57	0.004	0.89	0.02	0.78	3.07	3.43	2.90	11.49	12.71	1.08	25.17	4.72
EQT 231															
3414															
EQT 232															
3415															
EQT 233															
3416	0.17	0.17	0.53	0.16	0.16	0.50	2.45	2.45	2.751	0.53	0.53	1.62	0.20	0.20	0.61
EQT 234															
3417	0.30	0.30	0.39	0.28	0.28	0.36	4.19	4.19	5.50	0.90	0.90	11.8	0.34	0.34	0.45
EQT 235															
3418															
EQT 397															
615															
EQT 405															
3420															
EQT 406	0.55	0.55	0.43	0.51	0.51	0.40	7.75	7.75	6.01	1.67	1.67	1.29	0.63	0.63	0.49
3412	0.22	0.22	0.16	0.21	0.21	0.15	3.10	3.10	2.26	0.67	0.67	0.16	0.25	0.25	0.18
EQT 407															
3421															
EQT 410															
529															
EQT 411															
551															
FUG 004															
198P															
GRP 051															
3400															

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

PM10: 4.34 tons/yr
 SO2: 3.44 tons/yr
 NOX: 59.69 tons/yr
 CO: 48.91 tons/yr
 VOC: 329.68 tons/yr

Emission rates Notes:

EQT 202	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 203	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 204	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 205	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 206	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 207	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 208	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 223	VOC	Tons/Year	Emissions permitted include 240 hrs/yr of downtime for the vapor recovery system.	Which Months: All Year
EQT 233	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 397	VOC	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	1,2-Dichloroethane			1,3-Butadiene			1,4-Dioxane			2,2,4-Trimethylpentane			Acetaldehyde		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 137 255	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.002	< 0.002	< 0.006	< 0.006	< 0.001	< 0.001	< 0.001
EQT 138 499	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.002	< 0.002	< 0.013	< 0.013	< 0.001	< 0.001	< 0.001
EQT 139 500	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.002	< 0.002	< 0.13	< 0.13	< 0.001	< 0.001	< 0.001
EQT 140 501	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 141 502	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 142 503	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 143 504	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 144 505	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 145 506	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 146 507	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 153 511	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 155 513	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 156 514	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 157 515	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 158 516	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 159 517	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 160 518	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
EQT 161 519	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

		Acrolein			Acrylic acid			Ammonia			Benzene			Biphenyl		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 137																
255																
EQT 138																
499																
EQT 139																
500																
EQT 140																
501																
EQT 141																
502																
EQT 142																
503																
EQT 143																
504																
EQT 144																
505																
EQT 145																
506																
EQT 146																
507																
EQT 153																
511																
EQT 155																
513																
EQT 156																
514																
EQT 157																
515																
EQT 158																
516																
EQT 159																
517																
EQT 160																
518																
EQT 161																
519																

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Cumene			Diethanolamine			Ethyl Acrylate			Ethyl benzene			Ethylene glycol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
502	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
506	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 158	<	0.001	0.002	<	0.01	-	-	-	-	0.001	0.05	0.01	-	-	-
516	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 159	<	0.001	0.002	<	0.01	-	-	-	-	0.001	0.05	0.01	-	-	-
517	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 160	<	0.001	0.002	<	0.01	-	-	-	-	0.001	0.05	0.01	-	-	-
518	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Ethylene oxide			Formaldehyde			Glycol ethers (Table 51.1)			Glycol ethers (Table 51.3)			Hydrogen sulfide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 137 255															
EQT 138 499															
EQT 139 500							< 0.001	0.001	< 0.001	< 0.001	0.002	< 0.001			
EQT 140 501							< 0.001	< 0.001	< 0.001	< 0.001					
EQT 141 502															
EQT 142 503															
EQT 143 504															
EQT 144 505															
EQT 145 506							< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 146 507	2.72	486.64	8.27	< 0.001	< 0.001	< 0.01									
EQT 153 511															
EQT 155 513															
EQT 156 514															
EQT 157 515															
EQT 158 516															
EQT 159 517							< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 160 518															
EQT 161 519															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Hydroquinone

Phenol

Methanol

Methyl ethyl ketone

Naphthalene

Toluene

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year												
EQT 137 255	< 0.001	< 0.001	< 0.01							< 0.001	< 0.001	< 0.01			
EQT 138 499															
EQT 139 500				< 0.001	0.04	< 0.01									
EQT 140 501															
EQT 141 502															
EQT 142 503															
EQT 143 504															
EQT 144 505															
EQT 145 506				< 0.001	0.01	< 0.01							< 0.001	0.02	< 0.01
EQT 146 507															
EQT 153 511															
EQT 155 513															
EQT 156 514															
EQT 157 515															
EQT 158 516				< 0.001	< 0.001	< 0.001							0.01	0.91	0.03
EQT 159 517					0.001	0.01	< 0.01								
EQT 160 518				< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				0.002	0.13	0.01
EQT 161 519															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Phthalic Anhydride

Polymeric Hydrocarbons

Polynuclear Aromatic Hydrocarbons

Styrene

Toluene

Vinyl acetate

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year												
EQT 137	< 0.001	< 0.001	< 0.01	< 0.001	< 0.01	< 0.01	< 0.001	< 0.01	< 0.01	< 0.001	< 0.01	< 0.01	< 0.001	< 0.01	< 0.01
255															
EQT 138															
499															
EQT 139															
500															
EQT 140															
501															
EQT 141															
502															
EQT 142															
503															
EQT 143															
504															
EQT 144															
505															
EQT 145															
506															
EQT 146															
507															
EQT 153															
511															
EQT 155															
513															
EQT 156															
514															
EQT 157															
515															
EQT 158															
516															
EQT 159															
517															
EQT 160															
518															
EQT 161															
519															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Vinyl chloride			Xylene (mixed isomers)			n-Hexane			n-butyl alcohol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 137 255	-	-	-	-	-	-	-	-	-	-	-	-
EQT 138 499	-	-	-	-	-	-	-	-	-	-	-	-
EQT 139 500	-	-	-	-	-	-	-	-	-	-	-	-
EQT 140 501	-	-	-	-	-	-	-	-	-	-	-	-
EQT 141 502	-	-	-	-	-	-	-	-	-	-	-	-
EQT 142 503	-	-	-	-	-	-	-	-	-	-	-	-
EQT 143 504	-	-	-	-	-	-	-	-	-	-	-	-
EQT 144 505	-	-	-	-	-	-	-	-	-	-	-	-
EQT 145 506	-	-	-	-	-	-	-	-	-	-	-	-
EQT 146 507	< 0.001	< 0.001	< 0.01	-	-	-	-	-	-	-	-	-
EQT 153 511	-	-	-	-	-	-	-	-	-	-	-	-
EQT 155 513	-	-	-	-	-	-	-	-	-	-	-	-
EQT 156 514	-	-	-	0.003	0.033	0.01	-	-	-	-	-	-
EQT 157 515	-	-	-	-	-	-	-	-	-	-	-	-
EQT 158 516	-	-	-	0.01	0.11	0.05	0.32	2.88	1.40	-	-	-
EQT 159 517	-	-	-	-	-	-	-	-	-	0.05	0.49	0.22
EQT 160 518	-	-	-	0.01	0.11	0.05	0.32	2.88	1.40	-	-	-
EQT 161 519	-	-	-	-	-	-	-	-	-	0.05	0.50	0.23

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER19960023

Permit Number: 2656-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	1,2-Dichloroethane			1,3-Butadiene			1,4-Dioxane			2,2,4-Trimethylpentane			Acetaldehyde		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 162							< 0.001	0.01	< 0.01				0.002	0.10	0.01
520															
EQT 163															
521															
EQT 165															
523															
EQT 170															
531															
EQT 171															
532															
EQT 173															
534															
EQT 174															
535															
EQT 176															
537															
EQT 178															
540															
EQT 179							< 0.001	< 0.001	< 0.01				0.01	0.88	0.07
541															
EQT 180							< 0.001	< 0.001	< 0.01				0.01	0.13	0.03
542															
EQT 185															
547															
EQT 192															
598															
EQT 193															
599															
EQT 194							0.05	0.12	0.24				0.004	0.02	0.01
600															
EQT 195							0.05	0.12	0.24				0.004	0.02	0.01
601															
EQT 196															
602															
EQT 199							0.09	0.18	0.41				0.01	0.02	0.01
606															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Acrolein			Acrylic acid			Ammonia			Benzene			Biphenyl		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 162 520															
EQT 163 521															
EQT 165 523															
EQT 170 531															
EQT 171 532															
EQT 173 534															
EQT 174 535															
EQT 176 537															
EQT 178 540															
EQT 179 541															
EQT 180 542															
EQT 185 547															
EQT 192 598										0.001	0.001	< 0.01			
EQT 193 599															
EQT 194 600										0.19	1.26	0.83	< 0.001	< 0.001	< 0.01
EQT 195 601										0.19	1.26	0.83	< 0.001	< 0.001	< 0.01
EQT 196 602															
EQT 199 606										0.32	1.06	1.38	< 0.001	< 0.001	< 0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Cumene			Diethanolamine			Ethyl Acrylate			Ethyl benzene			Ethylene glycol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 162										< 0.001	0.003	< 0.01			
520															
EQT 163										< 0.001	0.001	< 0.01			
521															
EQT 165															
523															
EQT 170										0.004	< 0.01				
531															
EQT 171										< 0.001	< 0.001	< 0.01			
532															
EQT 173															
534															
EQT 174															
535															
EQT 176															
537															
EQT 178															
540															
EQT 179															
541															
EQT 180															
542															
EQT 185															
547															
EQT 192										< 0.001	< 0.001	< 0.01			
558															
EQT 193															
559															
EQT 194	< 0.001	0.002	< 0.01												
600															
EQT 195	< 0.001	0.002	< 0.01												
601															
EQT 196															
602															
EQT 199	< 0.001	0.001	< 0.01												
606															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Ethylene oxide			Formaldehyde			Glycol ethers (Table 51.1)			Glycol ethers (Table 51.3)			Hydrogen sulfide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 162 520	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.03	< 0.03	< 0.03	< 2.47	< 0.14	< 0.14
EQT 163 521															
EQT 165 523								< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.27	< 0.09	< 0.09
EQT 170 531															
EQT 171 532															
EQT 173 534	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01
EQT 174 535															
EQT 176 537															
EQT 178 540															
EQT 179 541															
EQT 180 542															
EQT 185 547															
EQT 192 598															
EQT 193 599															
EQT 194 600															
EQT 195 601															
EQT 196 602															
EQT 199 606															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

		Methanol						Naphthalene						Phenol											
		Hydroquinone			Methyl ethyl ketone			Naphthalene			Phenol			Hydroquinone			Methyl ethyl ketone			Naphthalene			Phenol		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 162																									
520																									
EQT 163		< 0.001	0.001							< 0.01															
521																									
EQT 165		< 0.001	0.002							< 0.01															
523																									
EQT 170																									
531																									
EQT 171																									
532										< 0.001	0.03														
EQT 173										< 0.001															
534																									
EQT 174										< 0.001	< 0.001														
535																									
EQT 176																									
537																									
EQT 178										< 0.001	0.01														
540																									
EQT 179																									
541																									
EQT 180																									
542																									
EQT 185																									
547																									
EQT 192																									
598																									
EQT 193																									
599																									
EQT 194		< 0.001	< 0.001							< 0.01	< 0.001														
600										< 0.001	< 0.001														
EQT 195										< 0.01	< 0.001														
601																									
EQT 196										0.12	0.59														
602										< 0.001	< 0.01														
EQT 199																									
606																									

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Phthalic Anhydride			Polynuclear Aromatic Hydrocarbons			Styrene			Toluene			Vinyl acetate		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 162 520															
EQT 163 521															
EQT 165 523															
EQT 170 531															
EQT 171 532															
EQT 173 534															
EQT 174 535															
EQT 176 537															
EQT 178 540															
EQT 179 541															
EQT 180 542															
EQT 185 547															
EQT 192 598															
EQT 193 599															
EQT 194 600	< 0.001	0.002	< 0.01	0.004	0.16	0.02	0.04	0.51	0.15						
EQT 195 601	< 0.001	0.002	< 0.01	0.004	0.16	0.02	0.03	0.51	0.15						
EQT 196 602															
EQT 199 606	< 0.001	0.001	< 0.01	0.004	0.07	0.02	0.05	0.30	0.23						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Vinyl chloride			Xylene (mixed isomers)			n-Hexane			n-butyl alcohol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 162 520												
EQT 163 521												
EQT 165 523												
EQT 170 531												
EQT 171 532												
EQT 173 534												
EQT 174 535												
EQT 176 537												
EQT 178 540												
EQT 179 541												
EQT 180 542												
EQT 185 547												
EQT 192 598							0.001	0.002	< 0.01			
EQT 193 599												
EQT 194 600				0.01	0.11	0.05	0.32	2.88	1.40			
EQT 195 601				0.01	0.11	0.05	0.32	2.88	1.40			
EQT 196 602				0.01	0.06	0.04	0.49	2.69	2.13			
EQT 199 606												

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	1,2-Dichloroethane			1,3-Butadiene			1,4-Dioxane			2,2,4-Trimethylpentane			Acetaldehyde			
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 200 607				0.09	0.18	0.41				0.01	0.02	0.02	< 0.001	< 0.001	< 0.01	
EQT 201 608				0.09	0.18	0.41				0.01	0.02	0.02	< 0.001	< 0.001	< 0.01	
EQT 202 617							0.28				0.001					17.70
EQT 203 619							0.28				0.001					17.70
EQT 204 621A							0.28				0.001					17.70
EQT 205 621B							0.28				0.001					17.70
EQT 206 625							0.28				0.001					17.70
EQT 207 625A							0.28				0.001					17.70
EQT 208 627							0.28				0.001					17.70
EQT 209 632							0.28				0.001					17.70
EQT 210 633				0.10	0.19	0.45				0.01	0.02	0.03	< 0.001	< 0.001	< 0.01	
EQT 211 634				0.07	0.15	0.32				0.005	0.02	0.02	< 0.001	< 0.001	< 0.01	
EQT 219 663																
EQT 220 666																
EQT 221 668				0.21	1.38	0.90				0.001	0.01	0.01	< 0.001	0.003	< 0.01	
EQT 222 3402													0.01	4.63	0.06	
EQT 223 3403	1.46	423.67	6.41													
EQT 224 3406																

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Acrolein			Acrylic acid			Ammonia			Benzene			Biphenyl		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 200 607										0.32	1.06	1.38	< 0.001	< 0.001	< 0.01
EQT 201 608										0.32	1.06	1.38	< 0.001	< 0.001	< 0.01
EQT 202 617				27.50						0.86					0.02
EQT 203 619				27.50						0.86					0.02
EQT 204 621A				27.50						0.86					0.02
EQT 205 621B				27.50						0.86					0.02
EQT 206 625				27.50						0.86					0.02
EQT 207 625A				27.50						0.86					0.02
EQT 208 627				27.50						0.86					0.02
EQT 209 632				27.50						0.86					0.02
EQT 210 633										0.35	1.09	1.52	< 0.001	< 0.001	< 0.01
EQT 211 634										0.25	1.06	1.09	< 0.001	< 0.001	< 0.01
EQT 219 635	0.001	0.02	0.003												
EQT 220 636				0.32	2.15	1.39									
EQT 221 668										0.70	5.79	3.08	< 0.001	< 0.001	< 0.01
EQT 222 3402															
EQT 223 3403															
EQT 224 3406															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Cumene			Diethanolamine			Ethyl Acrylate			Ethyl benzene			Ethylene glycol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 200	< 0.001	0.001	< 0.01												
607	< 0.001	0.001	< 0.01												
EQT 201	< 0.001	0.001	< 0.01												
608															
EQT 202				0.01			0.001			0.05			4.46		
617															
EQT 203							0.01			0.05			4.46		
619															
EQT 204							0.01			0.05			4.46		
621A															
EQT 205							0.01			0.05			4.46		
621B															
EQT 206							0.01			0.05			4.46		
625															
EQT 207							0.01			0.05			4.46		
625A															
EQT 208							0.01			0.05			4.46		
627															
EQT 209															
632															
EQT 210	< 0.001	0.001	< 0.01												
633															
EQT 211	< 0.001	0.001	< 0.01												
634															
EQT 219															
663															
EQT 220															
666															
EQT 221	< 0.001	0.001	< 0.01												
668															
EQT 222															
3402															
EQT 223															
3403															
EQT 224															
3406															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Ethylene oxide			Formaldehyde			Glycol ethers (Table 51.1)			Glycol ethers (Table 51.3)			Hydrogen sulfide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 200															
607															
EQT 201															
608															
EQT 202															
617															
EQT 203															
618															
EQT 204															
621A															
EQT 205															
621B															
EQT 206															
625															
EQT 207															
625A															
EQT 208															
627															
EQT 209															
632															
EQT 210															
633															
EQT 211															
634															
EQT 219															
663															
EQT 220															
666															
EQT 221															
668															
EQT 222				<	0.001	<	0.01								
3402															
EQT 223															
3403															
EQT 224															
3406															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Hydroquinone			Methanol			Methyl ethyl ketone			Naphthalene			Phenol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 200	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
607	EQT 201	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
608	EQT 202	< 0.001	0.39	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
617	EQT 203	< 0.001	0.39	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
619	EQT 204	< 0.001	0.39	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
621A	EQT 205	< 0.001	0.39	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
621B	EQT 206	< 0.001	0.39	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
625	EQT 207	< 0.001	0.39	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
625A	EQT 208	< 0.001	0.39	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
627	EQT 209	-	-	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
632	EQT 210	-	-	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
633	EQT 211	-	-	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
634	EQT 219	-	-	< 0.001	0.39	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	0.05	< 0.01
663	EQT 220	< 0.001	< 0.001	< 0.01	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.001	< 0.001	< 0.01
666	EQT 221	-	-	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	0.001	0.001	< 0.01	0.004	0.05	< 0.01
668	EQT 222	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3402	EQT 223	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3403	EQT 224	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3406	EQT 225	-	-	-	-	-	-	-	-	-	-	-	-	-	-

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Phthalic Anhydride			Polynuclear Aromatic Hydrocar bons			Styrene			Toluene			Vinyl acetate		
				Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 200 607	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.004	0.004	0.004	0.01	0.02	0.02	0.05	0.05	0.05	0.30	0.30	0.23
EQT 201 608	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.004	0.004	0.004	0.01	0.02	0.02	0.05	0.05	0.05	0.30	0.30	0.23
EQT 202 617	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 203 619	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 204 621A	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 205 621B	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 206 625	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 207 625A	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 208 627	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 209 632	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 210 633	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.30	0.30	0.25
EQT 211 634	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.35	0.35	0.18
EQT 219 663	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 220 666	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 221 668	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.49	0.49	0.49
EQT 222 3402	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 223 3403	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11
EQT 224 3406	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.05	0.05	0.11	0.11	0.11

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Vinyl chloride	Xylene (mixed isomers)	n-Hexane	n-butyl alcohol
EQT 200	Avg lb/hr	Max lb/hr	Tons/Year	
607	0.01	0.06	0.04	
EQT 201			0.49	2.69
608	0.01	0.06	0.49	2.13
EQT 202			2.69	
617		0.13	2.13	
EQT 203		0.13		
619		0.13	0.07	73.85
EQT 204		0.13		
621A		0.13	0.07	
EQT 205		0.13		73.85
621B		0.13	0.07	
EQT 206		0.13		73.85
625		0.13	0.07	
EQT 207		0.13		73.85
625A		0.13	0.07	
EQT 208		0.13		73.85
627		0.13	0.07	
EQT 209		0.13		73.85
632		0.13	0.07	
EQT 210	0.01	0.05	0.53	2.79
633		0.01	0.04	2.33
EQT 211		0.01	0.04	
634		0.01	0.40	2.58
EQT 219		0.01	0.04	1.73
663		0.01	0.04	
EQT 220		0.01	0.40	
666		0.01	0.04	0.35
EQT 221		0.01	0.03	0.04
668		0.01	0.35	0.19
EQT 222				
3402				
EQT 223				
3403				
EQT 224				
3406				

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations
 Activity Number: PER19960023
 Permit Number: 2656-V0
 Air - Title V Regular Permit Initial

All phases

Subject Item	1,2-Dichloroethane			1,3-Butadiene			1,4-Dioxane			2,2,4-Trimethylpentane			Acetaldehyde		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 226	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3408	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 227	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 233	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
615	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
529	0.07	0.07	0.28	0.58	0.58	0.58	2.54	< 0.001	< 0.001	0.01	0.01	0.001	< 0.001	< 0.001	< 0.001
FUG 004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
196P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRP 051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Acrolein			Acrylic acid			Ammonia			Benzene			Biphenyl		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 225															
3407															
EQT 226															
3408															
EQT 227															
3409															
EQT 230															
3413															
EQT 231				< 0.001	0.004	< 0.01									
3414															
EQT 232															
3415							27.50						0.86		0.02
EQT 233															
3416							27.50						0.86		0.02
EQT 397															
615															
EQT 410															
529	< 0.001	< 0.001	< 0.001	0.05	0.05	0.20	0.07	0.07	0.10	0.10	0.10	0.10	< 0.001	< 0.001	< 0.001
FUG 004															
196P															
GRP 051							0.68	0.68	2.99		0.01		0.04	< 0.001	< 0.001
3400															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Cumene			Diethanolamine			Ethyl Acrylate			Ethyl benzene			Ethylene glycol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 225															
3407															
EQT 226															
3408															
EQT 227															
3409															
EQT 230															
3413															
EQT 231															
3414															
EQT 232	<	0.001	<	0.001	<	0.01									
3415															
EQT 233															
3416															
EQT 397															
615															
EQT 410															
529															
FUG 004	<	0.001	<	0.001	<	0.01	0.03	0.03	0.14	0.14	0.14	0.14	0.004	0.004	0.02
196P															
GRP 051															
3400															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Ethylene oxide			Formaldehyde			Glycol ethers (Table 51.1)			Glycol ethers (Table 51.3)			Hydrogen sulfide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 225															
3407															
EQT 226															
3408															
EQT 227															
3409															
EQT 230															
3413															
EQT 231															
3414															
EQT 232															
3415															
EQT 233							0.001					10.97		5.07	
3416															0.49
EQT 397							0.001					10.97		5.07	
615															0.49
EQT 410															
529															
FUG 004	0.21	0.21	0.94	0.001	0.001	< 0.001	0.14	0.14	0.62	0.08	0.08	0.36			
196P				< 0.001	< 0.001	< 0.001	0.004	0.004	0.02	0.49	0.02	0.02	2.5	0.02	0.08
GRP 051															
3400															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Hydroquinone			Methanol			Methyl ethyl ketone			Naphthalene			Phenol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 225															
3407															
EQT 226															
3408															
EQT 227															
3409															
EQT 230															
3413															
EQT 231	< 0.001	< 0.001	0.01	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.001						
3414															
EQT 232															
3415															
EQT 233				< 0.001											
3416				< 0.001											
EQT 397				< 0.001											
615															
EQT 410															
529															
FUG 004	< 0.001	< 0.001	0.01	0.04	0.04	0.04	0.04	0.04	0.04	0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
136P															
GRP 051	< 0.001	< 0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
3400															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Phthalic Anhydride			Polynuclear Aromatic Hydrocarbons			Styrene			Toluene			Vinyl acetate		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 225															
3407															
EQT 226															
3408															
EQT 227															
3409															
EQT 230															
3413															
EQT 231															
3414															
EQT 232															
3415															
EQT 233	< 0.001				0.01			0.18			0.11				
3416															
EQT 397	< 0.001				0.01			0.18			0.11				
615															
EQT 410															
529	< 0.001	< 0.001		0.01	< 0.001	< 0.001	0.01	< 0.01		0.05	0.04	0.04	0.18	0.001	0.001
FUG 004	< 0.001	< 0.001		0.01	< 0.001	< 0.001	0.01	< 0.01		0.05	0.04	0.04	0.18	0.001	0.001
186P															
GRP 051	< 0.001	< 0.001		0.01	< 0.001	< 0.001	0.01	< 0.01		0.05	0.04	0.04	0.18	0.001	0.001
3400															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Vinyl chloride			Xylene (mixed isomers)			n-Hexane			n-butyl alcohol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 225												
3407												
EQT 226												
3408												
EQT 227												
3409												
EQT 230												
3413												
EQT 231												
3414												
EQT 232												
3415												
EQT 233												
3416												
EQT 397												
615												
EQT 410												
529	< 0.001	< 0.001		0.01	0.01	0.01	0.04	0.04	0.04	0.15	0.07	0.07
FUG 004												
198P												
GRP 051												
3400												

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,2-Dichloroethane: 6.81 tons/yr

1,3-Butadiene: 6.40 tons/yr

1,4-Dioxane: 0.04 tons/yr

2,2,4-Trimethylpentane: 0.21 tons/yr

Acetaldehyde: 0.82 tons/yr

Acrolein: <0.01 tons/yr

Acrylic acid: 5.80 tons/yr

Ammonia: 0.29 tons/yr

Benzene: 13.77 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

Biphenyl: <0.01 tons/yr			
Cumene: <0.01 tons/yr			
Diethanolamine: 0.15 tons/yr			
Ethyl Acrylate: 2.72 tons/yr			
Ethyl benzene: 0.10 tons/yr			
Ethylene glycol: 3.26 tons/yr			
Ethylene oxide: 9.21 tons/yr			
Formaldehyde: <0.01 tons/yr			
Glycol ethers (Table 51.1): 0.64 tons/yr			
Glycol ethers (Table 51.3): 2.82 tons/yr			
Hydrogen sulfide: 0.08 tons/yr			
Hydroquinone: <0.01 tons/yr			
Methanol: 0.72 tons/yr			
Methyl ethyl ketone: <0.01 tons/yr			
n-butyl alcohol: 8.28 tons/yr			
n-Hexane: 16.47 tons/yr			
Naphthalene: 0.10 tons/yr			
Phenol: <0.01 tons/yr			
Phthalic Anhydride: <0.01 tons/yr			
Polynuclear Aromatic Hydrocarbons: <0.01 tons/yr			
Styrene: 0.28 tons/yr			
Toluene: 2.40 tons/yr			
Vinyl acetate: <0.01 tons/yr			
Vinyl chloride: <0.01 tons/yr			
Xylene (mixed isomers): 0.50 tons/yr			
Emission Rates Notes:			
EQT 202	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400 Which Months: All Year
EQT 203	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400 Which Months: All Year
EQT 204	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400 Which Months: All Year
EQT 205	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400 Which Months: All Year
EQT 206	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400 Which Months: All Year
EQT 207	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400 Which Months: All Year
EQT 208	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400 Which Months: All Year
EQT 223	1,2-Dichloroethane	Tons/Year	Emissions permitted include 240 hrs/yr of downtime for the vapor recovery system. Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2083 - Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

All phases

EQT 233	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year
EQT 397	Hydrogen sulfide	Max lb/hr	Average lb/hr and TPY emissions are included on SL Loading CAP, Emission Point 3400	Which Months: All Year

General Information

AI ID: 2083 Union Carbide Corp - St Charles Operations

Activity Number: PER19960023

Permit Number: 2656-V0

Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	2520-0001	Union Carbide Corp - Taft Star Plant	CDS Number	08-05-2002
	2520-001	Union Carbide Corp - Taft Star Plant	Emission Inventory	03-03-2004
	13-1421730	Federal Tax ID	Federal Tax ID	11-21-1999
LAD041581422		Union Carbide Corp SCO Taft/Star	Hazardous Waste Notification	08-18-1980
PMT/PC		GPRRA Baselines	Hazardous Waste Permitting	10-01-1997
LAD041581422		Union Carbide	Inactive & Abandoned Sites	06-08-1981
LA00000191		WPC File Number	LPDES Permit #	05-22-2003
LAR10C313		LPDES #	LPDES Permit #	12-12-2004
LAR10C447		LPDES #	LPDES Permit #	12-12-2004
LA-2163-L01		Radioactive Material License	Radiation License Number	07-06-2001
2163		X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
GD-089-1324		Site ID #	Solid Waste Facility No.	04-30-2001
17809		Union Carbide Chemicals & Plastics	TEMPO Merge	10-17-2001
19135		Dow Union Carbide - St Charles Operations	TEMPO Merge	06-30-2002
34610		Union Carbide Corp - Hahnville Plant	TEMPO Merge	10-17-2001
35033		Union Carbide Corp - Star Plant	TEMPO Merge	07-15-2001
3832		Union Carbide Corp	TEMPO Merge	11-01-2000
38779		Union Carbide Corp	TEMPO Merge	07-15-2001
38780		Union Carbide Corp	TEMPO Merge	07-15-2001
38882		Union Carbide Corp	TEMPO Merge	07-15-2001
44903		Union Carbide Corp Taft Plant	TEMPO Merge	07-22-2001
45881		Union Carbide Chemical & Plastics	TEMPO Merge	07-22-2001
8533		Union Carbide	TEMPO Merge	09-05-2001
89428		Dow Chemical	TEMPO Merge	11-07-2001
9651		Union Carbide Star	TEMPO Merge	10-17-2001
2520-001		Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70057NNCRBHWY31		TRI #	Toxic Release Inventory	07-30-2004
45011610		UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-12-2002
			Main Phone:	9857834411

Physical Location:
355 Hwy 3142 Gate 28
Taft, LA 70057Mailing Address:
PO Box 50
Hahnville, LA 700570050

General Information

AI ID: 2083 Union Carbide Corp - St Charles Operations
Activity Number: PER19960023
Permit Number: 2656-V0
Air - Title V Regular Permit Initial

Location of Front Gate: 29° 58' 46" 81 hundredths latitude, 90° 26' 42" 75 hundredths longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Natash Goode	PO Box 50 Hahnville, LA 700570050		Air Permit Contact For
John Pucheu	PO Box 50 Hahnville, LA 700570050		Responsible Official for

Related Organizations:

Name	Address	Phone (Type)	Relationship
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		Owns
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		Operates
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		Accident Prevention Billing Party for
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		Solid Waste Billing Party for
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		Air Billing Party for
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		Radiation Registration Billing Party for
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		Radiation License Billing Party for
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		Water Billing Party for
Union Carbide Corp	PO Box 50 Hahnville, LA 700570050		UST Billing Party for

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.